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**OKAMURA et al.**(10) **Pub. No.: US 2021/0214018 A1**(43) **Pub. Date: Jul. 15, 2021**(54) **STRUCTURE OF JOINED  
CHANNEL-SHAPED PLATES**(52) **U.S. Cl.**  
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**CORPORATION**, Tokyo (JP)(57) **ABSTRACT**(72) Inventors: **Junya OKAMURA**, Tokyo-to (JP);  
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The disclosure herein provides a technique that provides increased strength to a jointed site of ends of two channel-shaped plates. A first (second) channel-shaped plate includes an elongated first (second) main plate, a first (second) upper flange, and a first (second) lower flange. The first channel-shaped plate includes a first extension at an end thereof, the first extension extending from the first lower flange and a lower part of the first main plate, and extending in a longitudinal direction of the channel-shaped plate. The second channel-shaped plate includes a second extension same as the first extension. The ends of the first and the second channel-shaped plates are assembled and joined such that the first extension is located outside the second channel-shaped plate and the second extension is located outside the first channel-shaped plate. A reinforcement plate is joined to both of the first main plate and the second main plate.

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